

IN THE CLAIMS:

Claims 2-5 (Cancelled)

6. (New) A process for the production of an aqueous two-component polyurethane coating emulsion comprising pumping a mixture of at least one polyisocyanate and an aqueous binder dispersion under a pressure of 1 to 30 MPa into a disperser, said disperser comprising:

a) a ceramic sleeve having openings in the wall thereof, with said openings communicating with one end of a pipe, said pipe having an open end remote from said end communicating with said openings,

a1) said ceramic sleeve having an open end,

a2) said ceramic sleeve further having a moveable ceramic piston located opposite said open end,

a2i) with the movement of said moveable piston being such that said openings can be partially or completely closed and

a2ii) with said movement being caused either via a pneumatic drive or an electric step motor,

and wherein said mixture is pumped into the open end of said ceramic sleeve, through said openings, and through said pipe.

7. (New) The process of Claim 6, wherein said openings are in the form of nozzle bores or holes.

8. (New) A process for the production of an aqueous two-component polyurethane coating emulsion comprising pumping a mixture of at least one polyisocyanate and an aqueous binder dispersion under a pressure of 1 to 30 MPa into a disperser, said disperser comprising:

a) a ceramic sleeve having openings in the wall thereof, with said openings communicating with one end of a pipe, said pipe having an open end remote from said end communicating with said openings,

a1) said ceramic sleeve having an open end,

a2) said ceramic sleeve further having a moveable ceramic piston located opposite said open end,

a2i) with the movement of said moveable piston being such that said openings can be partially or completely closed, and

a2ii) with said movement being caused either via a pneumatic drive or an electric step motor,

and wherein said mixture is pumped into said pipe, through said openings and through said ceramic sleeve.

9. (New) The process of Claim 8, wherein said openings are in the form of nozzle bores or slots.